

5.14 Fletcher Avenue and Highway 34

BEFORE

ADT: 22,700 veh/day (2002)

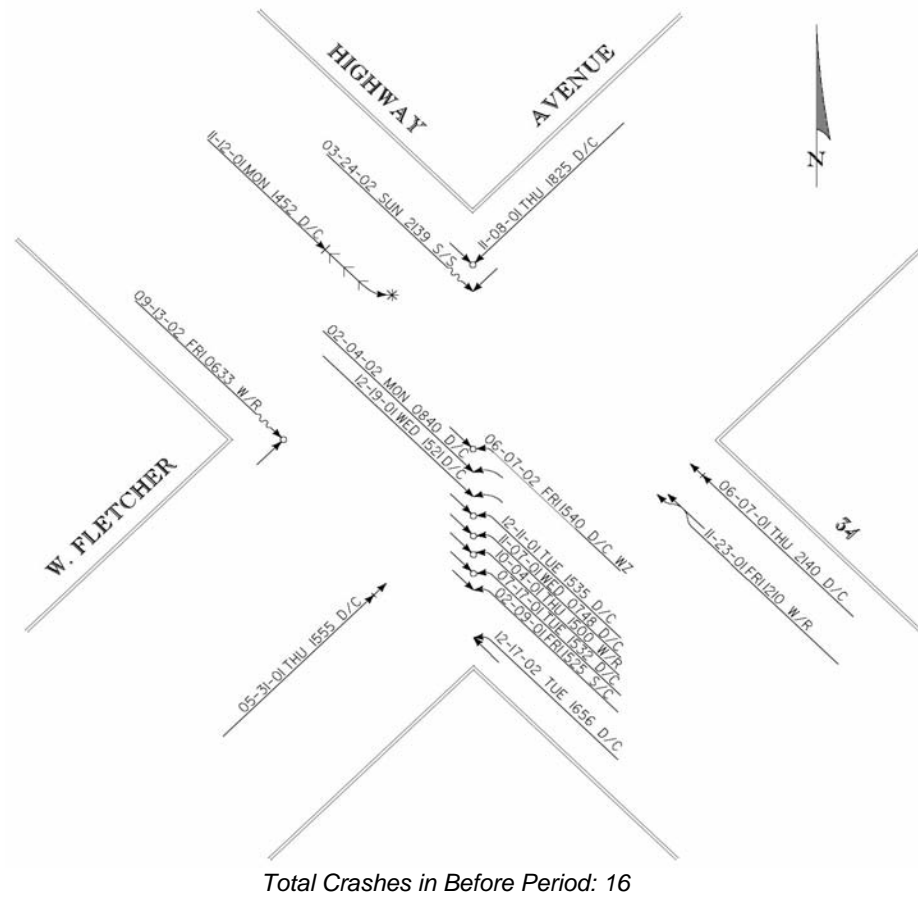
Time Period:

12/23/00-12/22/02

Traffic Control: Actuated Uncoordinated Signal

Crash Pattern:

NWB Left Turns



N/A

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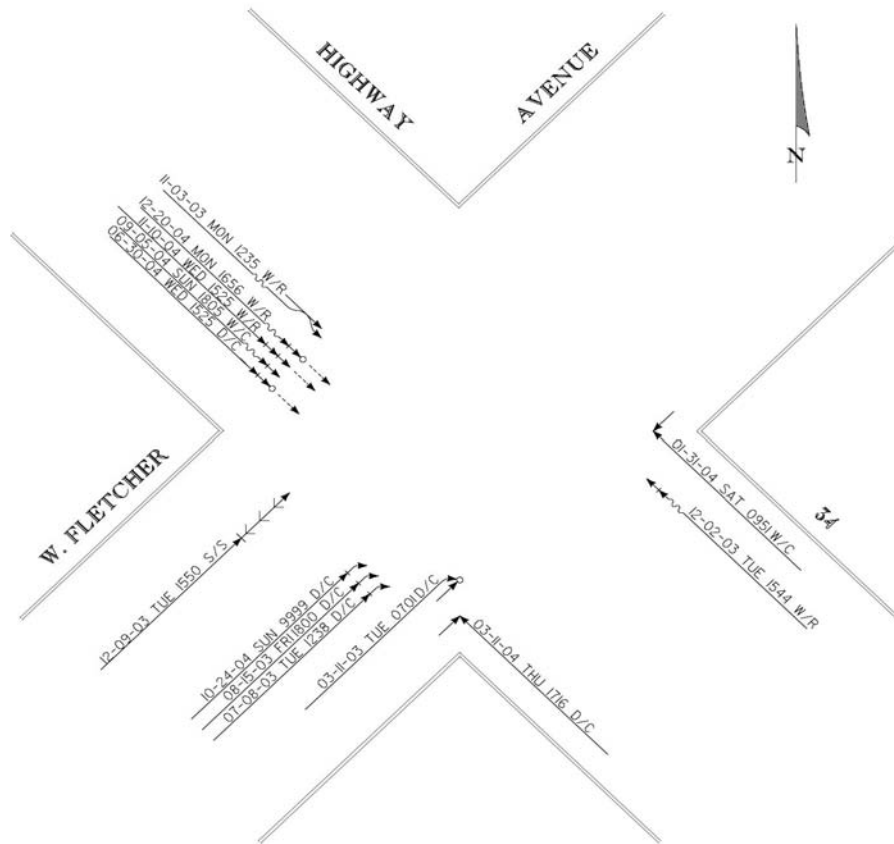
AFTER

Countermeasures: Converted Left Turn Phase to Protected Only

Time Period: 12/23/02-12/22/04

Improvement Completion Date: December 23, 2002

Speed Limits: NW/SE Arterial- 60 mph
SW/NE Arterial- 35 mph



Total Crashes in After Period: 13



Fletcher Avenue and Highway 34 - Northwestbound Approach (After)

5.14 Fletcher Avenue and Highway 34

COMPARISON

Countermeasures:

Converted Left Turn Phase to Protected Only

Improvement Completion Date:

December 23, 2002

	Before	After	Change
Analysis Period	12/23/00-12/22/02	12/23/02-12/22/04	-
Primary Crash Benefit			
Total Number of Correctable Crashes	9	0	-100%
All Other Intersection Crashes	7	13	86%
Intersection Crash Experience			
Injury + Fatal Crashes	7	3	-57%
Property Damage-Only Crashes	8	10	25%
Non-Reportable Crashes	1	0	-100%
Total Number of Intersection Crashes	16	13	-19%
Total Intersection Benefit			
Crash Rate	0.97	0.79	-19%
EPDO Rate	4.55	2.41	-47%
EPDO Number*	75.27	39.89	-35.38

Cost of Property Damage Crash: \$ 6,500

Total Benefit (12 months): \$ 229,970

Equivalent Uniform Annual Benefit (EUAB): \$ 267,460

Total Cost of Improvements:

Equivalent Uniform Annual Cost (EUAC): \$ 155

Initial Cost: \$ 1,500

Benefit-Cost Ratio:

$$\frac{\$ 267,460}{\$ 155} = 1725.5$$

Net Benefit (Present Worth): \$ 267,460 - \$155 = \$267,305

**Change NOT Statistically Significant at 95% Confidence Interval*

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